

DERWENT-ACC-NO: 1987-027490

DERWENT-WEEK: 198704

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TITLE: Ammonium sulphate granules prodn. - by adding ammonium sulphate pulverised powder or fine crystals to mother material

PATENT-ASSIGNEE: NIPPON STEEL CORP[YAWA]

PRIORITY-DATA: 1985JP-0126207 (June 12, 1985)

PATENT-FAMILY:

| PUB-NO        | PUB-DATE          | LANGUAGE | PAGES | MAIN-IPC |
|---------------|-------------------|----------|-------|----------|
| JP 61286216 A | December 16, 1986 | N/A      | 003   | N/A      |
| JP 88051970 B | October 17, 1988  | N/A      | 000   | N/A      |

APPLICATION-DATA:

| PUB-NO       | APPL-DESCRIPTOR | APPL-NO        | APPL-DATE     |
|--------------|-----------------|----------------|---------------|
| JP 61286216A | N/A             | 1985JP-0126207 | June 12, 1985 |

INT-CL (IPC): B01D009/02, C01C001/24, C05C003/00

ABSTRACTED-PUB-NO: JP 61286216A

BASIC-ABSTRACT:

To ammonium sulphate mother soln. finely pulverised powder or fine crystals of ammonium sulphate are added in amt. of 1-20% to crystallise the granules.

ADVANTAGE - Large, round like rice-shaped granules can be obtd. stably even if the properties of the mother soln. are changed.

In an example, 1-10% of  $(\text{NH}_4)_2\text{SO}_4$  seed crystals crushed to less than 30 mesh pass through were added to a 0.3 m<sup>3</sup> tank, kept at 45 deg.C, through which a mother soln. free of  $(\text{NH}_4)_2\text{SO}_4$  crystals was circulated at 50-100 l/min.; resulting granules were taken out continuously to maintain concn. of granules at 25%. At 10% of the seed crystal concn. resulting granules had a rice-shape and particle size distribution of larger than 12 mesh = 39.0 (44.0)%, 12-16 mesh = 38.4 (38.4)%, 16-20 mesh = 8.3 (6.6)%, 20-28 mesh = 9.8 (7.0)%, and smaller than 28 mesh = 4.5 (4.0)%.

CHOSEN-DRAWING: Dwg. 0/1

TITLE-TERMS: AMMONIUM SULPHATE GRANULE PRODUCE ADD AMMONIUM SULPHATE

7, 8, 11, 4, 2, 5, 6  
ordered  
translation  
no doc  
available

2.681mm

PULVERISE

POWDER FINE CRYSTAL MOTHER MATERIAL

DERWENT-CLASS: C04 E35

CPI-CODES: C05-C01; C12-M11D; E32-A03;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

C108 C316 C500 C540 C730 C801 C802 C804 M411 M720

M903 M904 M910 N104 N513 R032

Specific Compounds

01786P

Chemical Indexing M3 \*01\*

Fragmentation Code

C108 C316 C500 C540 C730 C801 C802 C804 M411 M720

M903 M904 M910 N104 N513 R032

Specific Compounds

01786P

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1786P

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-011890